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		RDON LLP	LEE, RIC	LEE, RICHARD J	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Summers	09/899,907	HONDA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Richard Lee	2613					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply sepecified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 17 Fe	ebruary 2005 and 24 February 20	<u>05</u> .					
· <u>-</u>	This action is FINAL . 2b)⊠ This action is non-final.						
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closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-10 and 12-20</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-10 and 12-20</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examine	ſ.						
10)⊠ The drawing(s) filed on <u>24 February 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119	,						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

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1. The request filed on February 17, 2005 for a Request for Continued Examination (RCE) is acceptable and a RCE has been established. An action on the RCE follows.

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-10, and 12-14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Upon further review, it is determined that "another apparatus" as claimed in claim 1, line 10, claim 2, lines 3-4, claim 3, lines 3-4, claim 5, line 8, claim 6, line 5, claim 7, line 6, claim 9, line 10, respectively is not supported by the Specification. As best understood by the Examiner, quantization element 111 of Figure 1 of the drawings is representative of the "another apparatus" as claimed. And nowhere in the Specification is element 111 being referred to as an "apparatus". It is clear from Figure 1 of the drawings, at least, that element 111 is part of the moving picture data producing apparatus 101.

Newly amended claim 12, lines 4-6 reciting the features of "compressed moving picture data input to said apparatus so as to comply with a bit rate to be output" is not fully supported by the disclosure for the following reasons. As best understood by the Examiner with reference to Figure 1 of the drawings for example, element 101 is considered the moving picture coding apparatus as claimed, element 110 is the bit rate correction means, and element 116 provides non

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compression image data as input to the apparatus 101 (see page 16 of the clean version of substitute Specification filed February 24, 2005). Therefore, it is clear that non compressed image data is inputted/provided to the moving picture coding apparatus, and not compressed moving picture data as claimed.

Due to the lengthy Specification, the applicant is advised to indicate the relevant sections of the Specification for support of any future amendment to the claim(s). This will help the Examiner, and cooperation with this is greatly appreciated.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1, 2, 9, 10, 12, 13, 15, and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Yanagihara et al of record (5,745,644).

Yanagihara et al discloses a method and apparatus for encoding a digital video signal as shown in Figure 1, and teaches the same apparatus for generating outputted moving picture data derived from inputted uncompressed moving picture data, moving picture data producing apparatus to which uncompressed moving picture data is input, and moving picture encoding apparatus (i.e., 1A, 1B, 1C, 2, 3A, 3B, 3C, 4, 5 of Figure 1) as claimed in claims 1, 2, 9, 10, 12, 13, 15, and 20, comprising the same compression means (i.e., 6-9 of Figure 1) including quantization means (i.e., 10 of Figure 1) for generating compressed moving picture data from the uncompressed moving picture data; rate correction data producing means (i.e., 10-14 of Figure 1, and see column 7, line 55 to column 8, line 43) for producing rate correction data (i.e., output of

14 to frame seg/error correct 15 of Figure 1) to be added to the compressed moving picture data (i.e., as provided at the output of 9 to frame seg/error correct 15 of Figure 1) to generate outputted moving picture data which is used by another apparatus (i.e., as provided by 14 of Figure 1, and see column 8, lines 16-30) to change the bit rate of the compressed moving picture data; wherein the rate correction data producing means creates rate correction data which enables rate changing by another apparatus by conducting a quantization for an area having high bit rate in motion picture frames (i.e., quantizer 10 serves to quantize the components by weighting each thereof, thereby providing the quantization for all types of areas, including those having high bit rate in motion picture frames, see column 7, lines 1-36); wherein the rate correction data producing means includes a quarry out area deciding means (i.e., as provided by 4 of Figure 1) which decides an area which is able to partially quarry out in a frame of moving picture data, and the rate correction data producing means creates the rate correction data for region in the quarry out area thus decided (i.e., as provided by 10-14 of Figure 1); wherein the rate correction data producing means produces the rate correction data which enables rate changing by the another apparatus for at least one or more areas within the quarry out area (i.e., quantizer selecting circuit 14 regulates the amount of quantized and variable length encoded data, setting new set of quantization intervals when appropriate, thereby enabling rate changing by another apparatus 14 for at least one or more areas within the quarry out area, see column 7, line 55 to column 8, line 43); bit rate correction means (i.e., as provided by 10-14 of Figure 1) for selecting rate correction data for each frame from compressed moving picture data (i.e., as provided by 6 of Figure 1) input to the apparatus so as to comply with a bit rate to be output, and for replacing the selected rate correction data with compressed moving picture data so that another moving picture data

having a different bit rate is synthesized, wherein the bit rate is changed based on the rate correction data without decoding all of the inputted moving picture data (i.e., circuit 14 selects a new set of quantization level, thereby replacing the selected rate correction data with compressed moving picture so that another moving picture data having a different bit rate is synthesized, and wherein the bit rate is changed based on the rate correction data without decoding all of the inputted moving picture data, see column 7; line 55 to column 8, line 43); wherein the bit rate correction means uses the rate correction data to change the bit rate of the compressed moving picture data according to a different desired bit rate to output a modified moving picture data at the desired bit rate (i.e., the particular selection of a new set of quantization interval meeting the predetermined amount provides a different desired bit rate to output a modified moving picture data at the desired bit rate, see column 8, lines 16-43); means for generating compressed moving picture data including encoded video packets (i.e., as provided by 6-15 of Figure 1) generated from uncompressed moving picture data (i.e., as provided by 1A, 1B, 1C, 2, 3A, 3B, 3C, 4, 5 of Figure 1); means for producing rate correction data (i.e., as provided by 6, 10-14 of Figure 1, and see column 7, line 55 to column 8, line 43) including information about the encoded video packets, wherein the rate correction data is used for changing a bit rate of the compressed moving picture data without decoding the encoded video packets, and means for adding the rate correction data (i.e., as output from 14 to 15 of Figure 1) to the compressed moving picture data (i.e., as provided by 9 to 15 of Figure 1) for output outputted moving picture data; means for inputting the outputted moving picture data (see Figures 1 and 19); means for retrieving the rate correction data from the outputted moving picture data (see Figure 19), and means for changing the bit rate of the output moving picture data by utilizing the rate correction data, wherein the bit

rate is changed without decoding all of the encoded video packets of the outputted moving picture data (i.e., as provided by 14 of Figure 1, see column 7, line 55 to column 8, line 43).

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 3, 4/1, 4/2, 4/3, 5, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanagihara et al as applied to claims 1, 2, 9, 10, 12, 13, 15, and 20 in the above paragraph (4), and further in view of Sethuraman of record (6,037,987).

Yanagihara et al discloses substantially the same moving picture data producing apparatus as above, further including means for recording reference inhibition area, wherein the area information is included in the rate correction data for each frame of the moving picture data (i.e., 18A, 18B of Figure 1); and using quantization value which is different from a value used when producing the compressed moving picture data (i.e., quantization value output from 8 of Figure 1 is different from quantization value as provided by 14 of Figure 1).

Yanagihara et al does not particularly disclose the followings:

- (a) wherein the rate correction data producing means creates rate correction data which enable bit rate changing by the another apparatus by conducting a different quantization for the area in a P frame of the compressed moving picture data having a low probability of being referred to in a motion prediction operation as claimed in claim 3;
- (b) means for recording reference inhibition area information about an area not to be referred to for motion compensation; motion compensation means for conducting motion

compensation without referring to the area not to be referred to in conducting motion prediction for a next frame; motion compensation means for conducting motion compensation and outputting referenced area information referred to at a time of motion estimation, wherein the rate correction data producing means uses the referenced area information creates rate correction data which enables rate changing by the another apparatus by conducting a quantization for an area a low probability of being referred to in conducting motion prediction for the next frame as claimed in claims 4/1, 4/2, 4/3, and 5; and

(c) wherein the rate correction data producing means produces rate correction data which enables the bit rate changing by the another apparatus by creating an I frame as well as P-frame with respect to the motion picture frames generated as P-frame by the compression means as claimed in claim 8.

Regarding (a) to (c), Sethuraman discloses an apparatus and method for selecting a rate and distortion based coding mode for a coding system as shown in Figure 1, and teaches the conventional motion estimation and compensation means (i.e., 140, 150 of Figure 1) for conducting motion compensation without referring to the area not to be referred to in conducting motion prediction for a next frame and conducting motion compensation and outputting referenced area information referred to at a time of motion estimation (i.e., as provided by the I-and P-frame motion compensation processing, see column 3, line 66 to column 4, line 8, column 5, lines 41-48) as well as providing the desired increase/decrease in quantization based on the buffer overflow/underflow conditions, thereby providing the different quantization for the area in a P-frame of the compressed moving picture having a low probability of being referred to in a motion prediction operation as claimed. And having provided the motion compensation means

of Sethuraman within Yanagihara et al, the rate correction data producing means within Yanagihara et al thereby produces rate correction data which enables the bit rate changing by the another apparatus by creating an I frame as well as P-frame with respect to the motion picture frames generated as P-frame by the compression means, and so that the means for recording reference inhibition area information about an area within Yanagihara et al is not to be referred to for motion compensation as claimed. Therefore, it would have been obvious to one of ordinary skill in the art, having the Yanagihara et al and Sethuraman references in front of him/her and the general knowledge of MPEG video compressions, would have had no difficulty in providing the I and P frame motion estimation and compensation processings, and the desired increase/decrease in quantization based upon buffer underflow/overflow conditions all as taught by Sethuraman for the video encoder system of Yanagihara et al for the same well known adaptive quantization based on motion, and MPEG motion estimation and compensation for providing the best block matching purposes as claimed.

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8. Claims 6 and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanagihara et al as applied to claims 1, 2, 9, 10, 12, 13, 15, and 20 in the above paragraph (4), and further in view of Shimizu et al of record (5,748,245).

Yanagihara et al discloses substantially the same moving picture data producing apparatus as above, further including producing the rate correction data which enables rate changing by the another apparatus by conducting a quantization using a quantization value equivalent to a value used when producing the compressed moving picture data (i.e., as provided by 8, 10-14 of Figure 1 and see column 7, lines 55 to column 8, line 43)

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Yanagihara et al does not particularly disclose the followings:

- (a) wherein the rate correction data producing means deletes high frequency components from input uncompressed moving picture data in advance as claimed in claim 6, and
- (b) wherein the information in the rate correction data includes information identifying less important bits of the encoded video packets, and wherein the changing the bit rate of the compressed moving picture data is done by stripping some number of the less important bits from some number of the encoded video packets without decoding the some number of the encoded video packets; deciding a deletion area of a frame in the moving picture data for generating deletion area data for including in the information in the rate correction data means; means for changing the bit rate of the outputted moving picture data by utilizing the rate correction data to delete the deletion area without decoding all of the encoded video packets of the outputted moving picture data, and for stripping some of less important bits without decoding all of the encoded video packets of the outputted moving picture data as claimed in claims 16-19.

Regarding (a) and (b), Shimizu et al teaches the conventional deleting of the high frequency components from input uncompressed moving picture data in advance (see column 10, lines 41-52), thereby identifying less important bits of the encoded video packets and stripping some number of the less important bits from some number of the encoded video packets, and deciding a deletion area of a frame in the moving picture data for generating deletion area data. Therefore, it would have been obvious to one of ordinary skill in the art, having the Yanagihara et al and Shimizu et al references in front of him/her and the general knowledge of DCT frequency coefficient selections, would have had no difficulty in providing the deletion of the bit data from the deleting DCT high frequency components as taught by Shimizu et al for the system

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of Yanagihara et al so that the bit rate correction means of Yanagihara et al uses the bit deletion data to delete some number of bits to output modified moving picture data at a different desired bit rate, changing the bit rate of the compressed moving picture data by stripping some number of less important bits from some number of the encoded video packets without decoding the some number of the encoded packets, deciding a deletion area of a frame in the moving picture data for generating deletion area data for including in the information in the rate correction data means, changing the bit rate of the outputted moving picture data by utilizing the rate correction data to delete the deletion area without decoding all of the encoded video packets of the outputted moving picture data, and for stripping some of less important bits without decoding all of the encoded video packets of the outputted moving picture data for the same well known video bandwidth reduction purposes as claimed.

9. The applicant requests that the Examiner organize the rejection claim by claim at page 9 of the amendment filed February 17, 2005 on the grounds that the listing of the numerous teachings of the references in a single long paragraph is difficult for the applicant to respond to and the rejections are in a disorganized nature. The Examiner wants to point out that there is no single format requirement for examiners to follow in formulating rejections. Some examiners prefer the claim by claim analysis while others, like myself, use a paragraph format. The critical issue at hand is that each and every claimed limitation needs to be addressed. The Examiner believes that in the rejections above relevant sections of the applied art have been identified for the claimed features, and as such the requirement for addressing each and every claimed limitation has been satisfied. The Examiner does not understand why the rejections in a paragraph format are disorganized and why it would be difficulty for the applicant to respond to

the rejections since the applicant should already understand the features of the invention. For the above reasons, the Examiner does not believe that it is necessary to change the present rejection format. And from the applicant's arguments from the amendment filed February 17, 2005, it seems apparent that the applicant understands the Examiner's position in rejecting the claims.

The applicant argued at pages 9-11 of the amendment filed February 17, 2005 that the references do not show "rate correction data producing means" for producing "rate correction data to be added to said compressed moving picture data" wherein the rate correction data "is used by another apparatus to change the bit rate of said compressed moving picture data" as claimed in claims 1 and 9, that nowhere does Yanagihara discuss another apparatus for changing a bit rate, and that there is no teaching in Yanagihara that circuit 14 represents an "another apparatus". The Examiner wants to firstly point out that quantization element 111 of Figure 1 of the drawings represents the "another apparatus" as claimed (see above paragraph (3)), and element 111 is within the moving picture data producing apparatus 101. Similarly, the apparatus of Figure 1 of Yanagihara et al consists of a quantization select element 14. And if present invention element 111 of Figure 1 is considered an apparatus as claimed, then element 14 of Yanagihara et al can also certainly be referred to as an apparatus. Secondly, it is submitted that Yanagihara shows the same rate correction data producing means (i.e., 10-14 of Figure 1, and see column 7, line 55 to column 8, line 43) for producing rate correction data (i.e., output of 14 to frame seg/error correct 15 of Figure 1) to be added to the compressed moving picture data (i.e., as provided at the output of 9 to frame seg/error correct 15 of Figure 1) to generate outputted moving picture data which is used by another apparatus (i.e., as provided by 14 of Figure 1, and see column 8, lines 16-30) to change the bit rate of the compressed moving picture

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data as claimed. And since circuit 14 has the capability of selecting a new set of quantization level so as to meet a threshold, i.e. predetermined amount (see column 7, line 55 to column 8, line 43), it is submitted that circuit 14 provides the same rate correction data as claimed.

The applicant argued at page 11 of the amendment filed February 17, 2005 with respect to claim 12 that the input to the Yanagihara device is taught to be a digital luminance signal, not a compressed signal. The Examiner wants to point out that such arguments have been considered and addressed in the above paragraph (3).

The applicant argued at page 11 of the amendment filed February 17, 2005 that the references does not suggest using rate correction data to change a bit rate of a compressed moving picture data without decoding. The Examiner respectfully disagrees. It is submitted again that Yanagihara et al shows the same means for producing rate correction data (i.e., as provided by 6, 10-14 of Figure 1, and see column 7, line 55 to column 8, line 43) including information about the encoded video packets, wherein the rate correction data is used for changing a bit rate of the compressed moving picture data without decoding the encoded video packets, as claimed.

The applicant argued at pages 12-13 of the amendment filed February 17, 2005 in general that the Examiner has not provided proper motivation for combining the references in order to make a prima facie case of obviousness. The Examiner respectfully disagrees and contrary to the applicant's contention, the Office has made a strong case of prima facie obviousness. The burden falls on the applicant to rebut it with objective evidence of non-obviousness, and mere argument does not overcome the prima facie case of obviousness (See In re Palmer, 172 USPQ 126 (CCPA 1971)).

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Lee whose telephone number is (571) 272-7333. The Examiner can normally be reached on Monday to Friday from 8:00 a.m. to 5:30 p.m, with alternate Fridays off.

Richard Lee/rl

5/3/05